

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addease COMMISSIONER FOR PATENTS PO Box 1430 Alexandra, Virginia 22313-1450 www.webjo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,800	09/25/2006	Jun-ichi Matsuda	204309-9001	8035
1131 7590 11/20/2008 MICHAEL BEST & FRIEDRICH LLP Two Prudential Plaza			EXAMINER	
			NGUYEN, NGA X	
180 North Stetson Avenue, Suite 2000 CHICAGO, IL 60601			ART UNIT	PAPER NUMBER
			3662	
			MAIL DATE	DELIVERY MODE
			11/20/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/566,800 MATSUDA, JUN-ICHI Office Action Summary Examiner Art Unit NGA X. NGUYEN 3662 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 05 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 and 73-78 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-6 and 73-78 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 30 January 2006 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date 9/25/2006.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Page 2

Application/Control Number: 10/566,800

Art Unit: 3662

Election/Restrictions

Applicant's election without traverse, Embodiment 1 corresponding to claims 1-6
 73-78 are drawn to a mobile communication network in outline in the reply filed on
 9/05/2008 is acknowledged. Claims 7-72 & 79-144 are withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- Claim 1 & 73 are rejected under 35 U.S.C. 112, second paragraph, as being
 indefinite for failing to particularly point out and distinctly claim the subject matter which
 applicant regards as the invention.
 - -"propagation time of radio signal between the two radio stations and the radio terminal" is unclear. Is that the time offset between a radio station and radio terminal?
 - "specifying a communication rangeto determine the candidate point included in the communication range of the two candidate points" is unclear.

 What is the communication range?

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Art Unit: 3662

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claim 1-6 & 73-78 are rejected under 35 U.S.C. 102(b) as being anticipated by Keramen (2002/0094820).

With regard to claim 1 & 73, Keramen discloses:

- There are two radio stations with two known geographical location (see page 3, paragraph 29).
- A radio terminal with an unknown geographical location (see page 3, paragraph 30).
- Depicting two curves to determine two intersection points between the two
 curves as two candidate points for the geographical location of the radio terminal
 by using propagation time between two radio stations and the radio terminal (see
 page 3-4, paragraph 32-43).
- Determine the candidate point included in the communication range of the two candidate points as the geographical location of the radio terminal (see page 4, paragraph 42-43).

With regard to claim 2-3 & 74-75, Keramen teaches:

 Measure the propagation time and a difference of the propagation time of the radio signals between the radio station and the radio terminal in the step of finding two candidate points (see 4, paragraph 42).

With regard to claim 4 & 76, Keramen the mobile communication network comprising at least one radio terminal and at least two base stations (see page 4, paragraph 43).

Application/Control Number: 10/566,800

Art Unit: 3662

With regard to claim 5-6 & 77-78, Keramen the radio terminal has a function to receive a signal from a GPS satellite, one of the radio stations is the base station, and the other of the radio stations is the GPS satellite. Or both radio stations are GPS satellites (see page 1, paragraph 4-6).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGA X. NGUYEN whose telephone number is (571)272-5217. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TARCZA H. THOMAS can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/566,800 Page 5

Art Unit: 3662

NGA X NGUYEN Examiner Art Unit 3662

NXN

/Thomas H. Tarcza/ Supervisory Patent Examiner, Art Unit 3662